

13. The equation of f in Problem 11 is $f(x) = 4.5\sqrt{1-x} + 2.5(x-1)$. Enter this equation and the equation for $g(x)$ into your grapher and plot the graphs. Does the result agree with the figure in Problem 11?
14. The equation of f in Problem 12 is $f(x) = 4.5\sqrt{1-x} + 2.5(x-1)$. Enter this equation and the equation for $g(x)$ into your grapher and plot the graphs. Does the result agree with the figure in Problem 12?

Figure 1-3h shows the graph of the pre-image function f . For Problems 15–20,

- Sketch the graph of the image function g on a copy of Figure 1-3h.
- Identify the transformation(s) that are done.

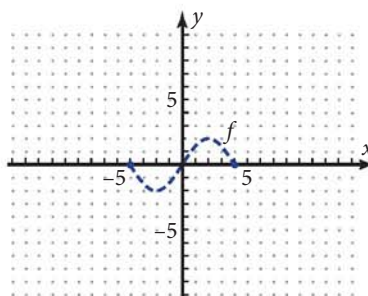


Figure 1-3h

- $g(x) = f(x + 6)$
- $g(x) = f\left(\frac{1}{2}x\right)$
- $g(x) = 5f(x)$
- $g(x) = 4 + f(x)$
- $g(x) = 5f(x + 6)$
- $g(x) = 4 + f\left(\frac{1}{2}x\right)$



21. **Dynamic Transformations Problem:** Go to www.flourishkh.com and find the Dynamic Precalculus Explorations for Chapter 1. Complete the *Translation* exploration and the *Dilation* exploration, and explain in writing what you learned.

